

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

- 1                   1.       (Previously presented) An intravascular balloon catheter comprising:  
2                   a catheter body having a proximal end, a distal end, a guidewire lumen, and an  
3 axially slit passage along at least a portion thereof; and  
4                   a first balloon structure comprising a balloon and a passage slidably receivable  
5 over the catheter body and an inflation tube removably receivable in the axially slit passage.
2.       (Cancelled).
- 1                   3.       (Currently Amended) An intravascular balloon catheter as in claim 1,  
2 wherein a perimeter of the catheter body has a circular, ~~oblong, or elliptical~~ shape.
- 1                   4.       (Original) An intravascular balloon catheter as in claim 1, wherein the  
2 distal end of the catheter body is axially tapered for a length of at least 3 mm.
- 1                   5.       (Original) An intravascular balloon catheter as in claim 1, further  
2 comprising an atraumatic tip at the distal end of the catheter body.
- 1                   6.       (Original) An intravascular balloon catheter as in claim 1, wherein the  
2 catheter body is formed from a polymer material, a composite material, a braided material, or a  
3 metal material.
- 1                   7.       (Original) An intravascular balloon catheter as in claim 1, wherein the  
2 catheter body comprises multiple tubular members coupled to one another.
- 1                   8.       (Previously presented) An intravascular balloon catheter as in claim 1,  
2 wherein the inflation tube extends proximally from the balloon when the balloon is disposed near  
3 the distal end of the catheter body.

1                   9.       (Original) An intravascular balloon catheter as in claim 8, wherein the  
2 inflation tube has sufficient column strength to advance the balloon structure over the catheter  
3 body.

10.-11. (Cancelled).

1                   12.       (Original) An intravascular balloon catheter as in claim 8, wherein the  
2 inflation tube has a length in the range from 10 cm to 150 cm.

13.-14. (Cancelled).

1                   15.       (Original) An intravascular balloon catheter as in claim 1, wherein the  
2 catheter body is substantially free from structure at the proximal end which would interfere with  
3 passage of the balloon structure over the proximal end of the catheter body.

1                   16.       (Original) An intravascular balloon catheter as in claim 1, further  
2 comprising an expandable vascular prosthesis disposed over the first balloon structure.

1                   17.       (Original) An intravascular balloon catheter system comprising a balloon  
2 catheter as in claim 1, further comprising a second balloon structure having a passage which is  
3 slidably receivable over the catheter body.

1                   18.       (Original) An intravascular balloon catheter system as in claim 17, further  
2 comprising an expandable vascular prosthesis disposed over the second balloon structure.

1                   19.       (Original) An intravascular balloon catheter as in claim 1, wherein the  
2 catheter body is axially slit over at least a portion of the length of the guidewire lumen.

20.-21. (Cancelled).

1                   22.    (Original) An intravascular balloon catheter as in claim 1, wherein the  
2 catheter body has a length in the range from 50 cm to 200 cm, and outer diameter in the range  
3 from 1 F to 10 F, and a guidewire lumen diameter in the range from 0.2 mm to 2 mm.

1                   23.    (Original) An intravascular balloon catheter as in claim 1, wherein the  
2 balloon structure further comprises an inner sleeve having an inflatable balloon disposed over an  
3 outer surface of the inner sleeve, wherein the passage is formed axially in the inner sleeve.

1                   24.    (Original) An intravascular balloon catheter as in claim 23, wherein the  
2 inner sleeve has a length in the range from 3 cm to 50 cm and the inflatable balloon has a length  
3 in the range from 1 cm to 5 cm.

1                   25.    (Original) An intravascular balloon catheter as in claim 23, wherein at  
2 least a portion of the inner sleeve is slidably receivable over the catheter body.

1                   26.    (Withdrawn) An intravascular balloon catheter as in claim 1, further  
2 comprising a deployable embolic capture element on the catheter body.

1                   27.    (Withdrawn) An intravascular balloon catheter as in claim 26, wherein the  
2 deployable embolic capture element is located within 20 cm of the distal end of the catheter  
3 body.

1                   28.    (Withdrawn) An intravascular balloon catheter as in claim 1, further  
2 comprising a deployable embolic capture element on the first balloon structure.

1                   29.    (Withdrawn) An intravascular balloon catheter as in claim 1, further  
2 comprising a second balloon on the catheter body.

1                   30.    (Withdrawn) An intravascular balloon catheter as in claim 29, further  
2 comprising an expandable vascular prostheses disposed over the second balloon.

1                   31.     (Withdrawn) An intravascular balloon catheter as in claim 1, further  
2     comprising a self-expanding vascular prosthesis on the catheter body.

1                   32.     (Withdrawn) An intravascular balloon catheter as in claim 31, wherein the  
2     vascular prosthesis is distal the balloon structure in an unexpanded state.

1                   33.     (Withdrawn) An intravascular balloon catheter as in claim 31, wherein the  
2     vascular prosthesis is at least partially under the balloon structure in an unexpanded state.

1                   34.     (Withdrawn) An intravascular balloon catheter as in claim 1, further  
2     comprising an atherectomy element coupled to the distal end of the catheter body.

1                   35.     (Withdrawn) An intravascular balloon catheter as in claim 1, further  
2     comprising at least one pressure sensor coupled to the distal end of the catheter body.

1                   36.     (Withdrawn) An intravascular balloon catheter as in claim 1, further  
2     comprising at least one infusion port at the distal end of the catheter body.

37.-52. (Cancelled).